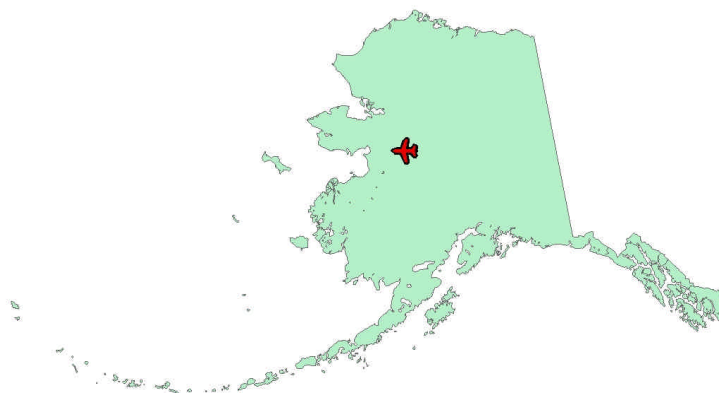


# GALENA AIRPORT



## 2004 Alaska Airport Pavement Condition Report

Scott Gartin, P.E.  
 State Pavement Engineer  
 Statewide Materials Section, Alaska DOT&PF  
 5800 E. Tudor Road  
 Phone: (907) 269-6244 Fax: (907) 269-6231  
 Email: [scott\\_gartin@dot.state.ak.us](mailto:scott_gartin@dot.state.ak.us)

Maps and report compiled by  
 H. June Finkbiner  
 Central Region Materials, Alaska DOT&PF

# **EDWARD G. PITKA SR. AIRPORT GALENA -2004**

## **Contents:**

- A Pavement Strength Form showing project history, latest Pavement Condition Index (PCI) data, pavement strength ratings (if available) and other useful information
- A Pavement Condition Survey – PCI Sample Unit Layout Plan
- PCI maps showing as-measured and predicted pavement conditions
- Age map showing pavement age as of January 2004
- A Branch PCI Condition Report
- A Section PCI Condition Report

## **Airport Information:**

- Location:  
Galena Airport is located approximately 200 miles west of Fairbanks on the north bank of the Yukon River.
- District: Interior District of the Northern Region
- Airport Manager: Bill O'Halloran
- District Maintenance Manager: Michael Coffey
- Pavement Surface: Asphalt Concrete and Portland Cement Concrete,
- Last Pavement Construction: 2004
- Pavement layout:  
The main runway (7-25) is 7,254' long and 150' wide with paved shoulders on the Asphalt Concrete surfaced portion. The jointed Portland Cement Concrete (PCC) section, that is 900' long and 150' wide on the east end of the runway is gravel shouldered. There is also a 2786' gravel runway (6-24) on the airport but that is not considered herein. Taxiway E (the "Elephant Ear", formerly Taxiway D ) is also PCC surfaced. Construction of the new asphalt concrete surfaced parallel Taxiway F was completed in 2004. Construction of the new Taxiway D that accesses the runway from Taxiway F was also completed in 2004. The General Aviation Apron (Branch 4200) was reconstructed and expanded in 2004 with asphalt concrete along with the Taxiways. This apron was formerly BST surfaced. The State of Alaska has control of General Aviation Apron, Taxiway F and Taxiway D. The rest was constructed and is maintained under contract with the U.S. Air Force.
- Design Aircraft: State areas: DC-6, and occasional B-737-100, the rest stronger for Military aircraft
- 2003 Enplanements: 11,133 – a 23% decrease from 2002
- Airport Class: Primary
- Last pavement condition survey: 2001, BST Apron only
- Next planned pavement condition survey: 2005
- 2004 reported pavement maintenance and/or changed conditions: A major pavement rehabilitation and construction project was completed in early September of 2004. This involved Branches 4200, 400 and 600. The USAF reportedly has a major pavement rehabilitation project planned for the rest of the airport.
- Recommendations: Seal cracks that are over 1/4" wide and patch as needed.

Date: 3 /17/2005

## Branch Condition Report

1 of 2

Pavement Database: NetworkID: Galena

Branch ID	Number of Sections	Sum Section Length (Ft)	Avg Section Width (Ft)	True Area (SqFt)	Use	Average PCI	PCI Standard Deviation	Weighted Average PCI
400-01 (Taxiway D)	1	368.00	50.00	25,400.00	TAXIWAY	100.00	0.00	100.00
4200 (G. A. APRON)	2	1,050.00	450.00	472,500.01	APRON	100.00	0.00	100.00
600-01 (Taxiway F)	1	3,454.04	50.00	177,702.00	TAXIWAY	100.00	0.00	100.00

Date: 3 /17/2005

## Branch Condition Report

2 of 2

*Pavement Database:*

Use Category	Number of Sections	Total Area (SqFt)	Arithmetic Average PCI	Average PCI STD.	Weighted Average PCI
APRON	2	472,500.01	100.00	0.00	100.00
TAXIWAY	2	203,102.00	100.00	0.00	100.00
<b>All</b>	<b>4</b>	<b>675,602.01</b>	<b>100.00</b>	<b>0.00</b>	<b>100.00</b>

Date: 3 /17/2005

## Section Condition Report

1 of 2

Pavement Database: NetworkID: Galena

Branch ID	Section ID	Last Const. Date	Surface	Use	Rank	Lanes	True Area (SqFt)	Last Inspection Date	Age At Inspection	PCI
400-01 (Taxiway D)	400-01	09/01/2004	AC	TAXIWAY	P	0	25,400.00	09/01/2004	0	100.00
4200 (G. A. APRON)	4200-01	09/01/2004	ST	APRON	P	0	270,000.01	09/01/2004	0	100.00
4200 (G. A. APRON)	4200-02	09/01/2004	AC	APRON	P	0	202,500.00	09/01/2004	0	100.00
600-01 (Taxiway F)	600-01	09/01/2004	AC	TAXIWAY	P	0	177,702.00	09/01/2004	0	100.00

Date: 3 /17/2005

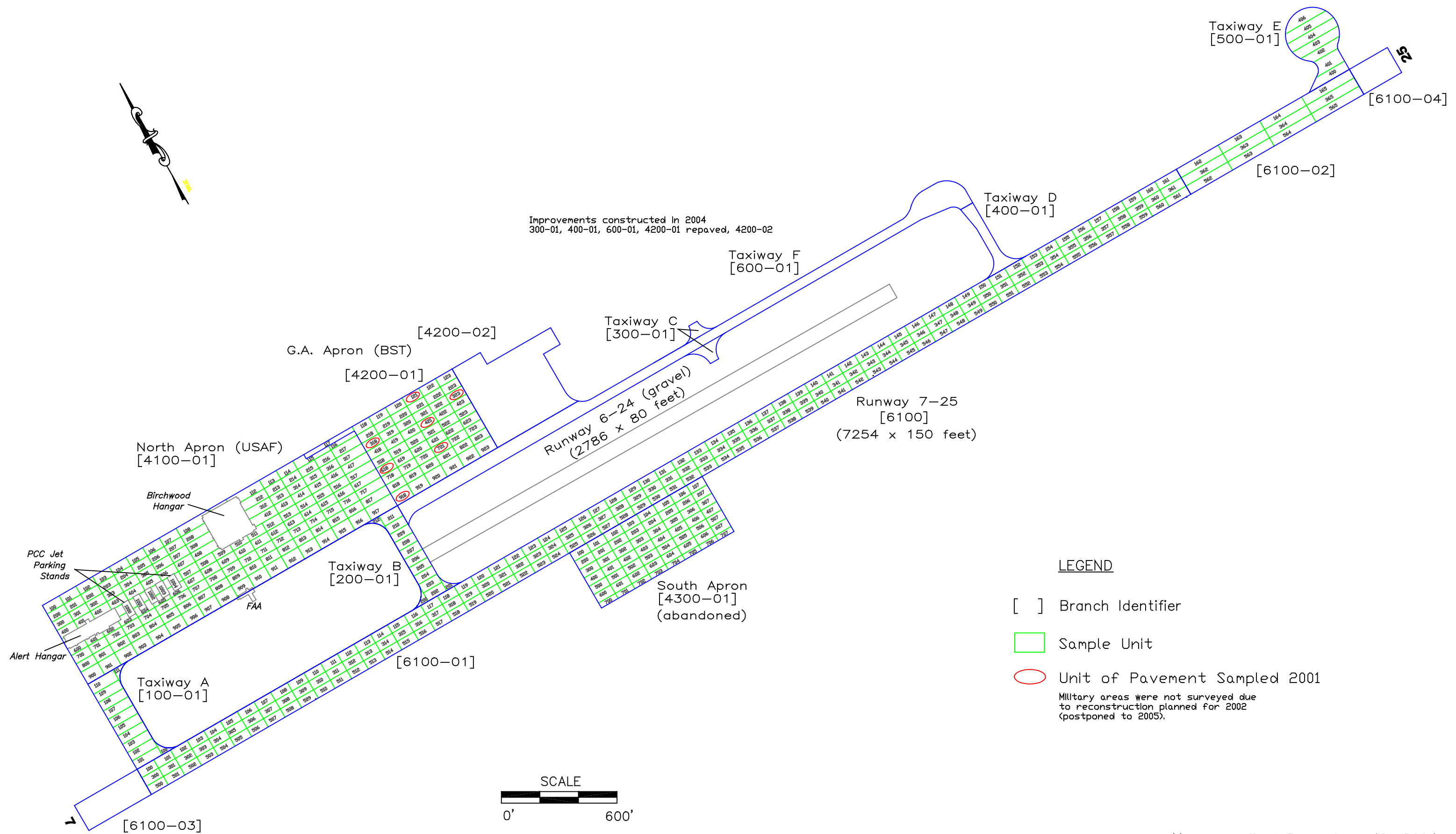
## Section Condition Report

2 of 2

*Pavement Database:*

Age Category	Average Age At Inspection	Total Area (SqFt)	Number of Sections	Arithmetic Average PCI	PCI Standard Deviation	Weighted Average PCI
0-02	0.00	675,602.01	4	100.00	0.00	100.00
All	0.00	675,602.01	4	100.00	0.00	100.00

[illegible]

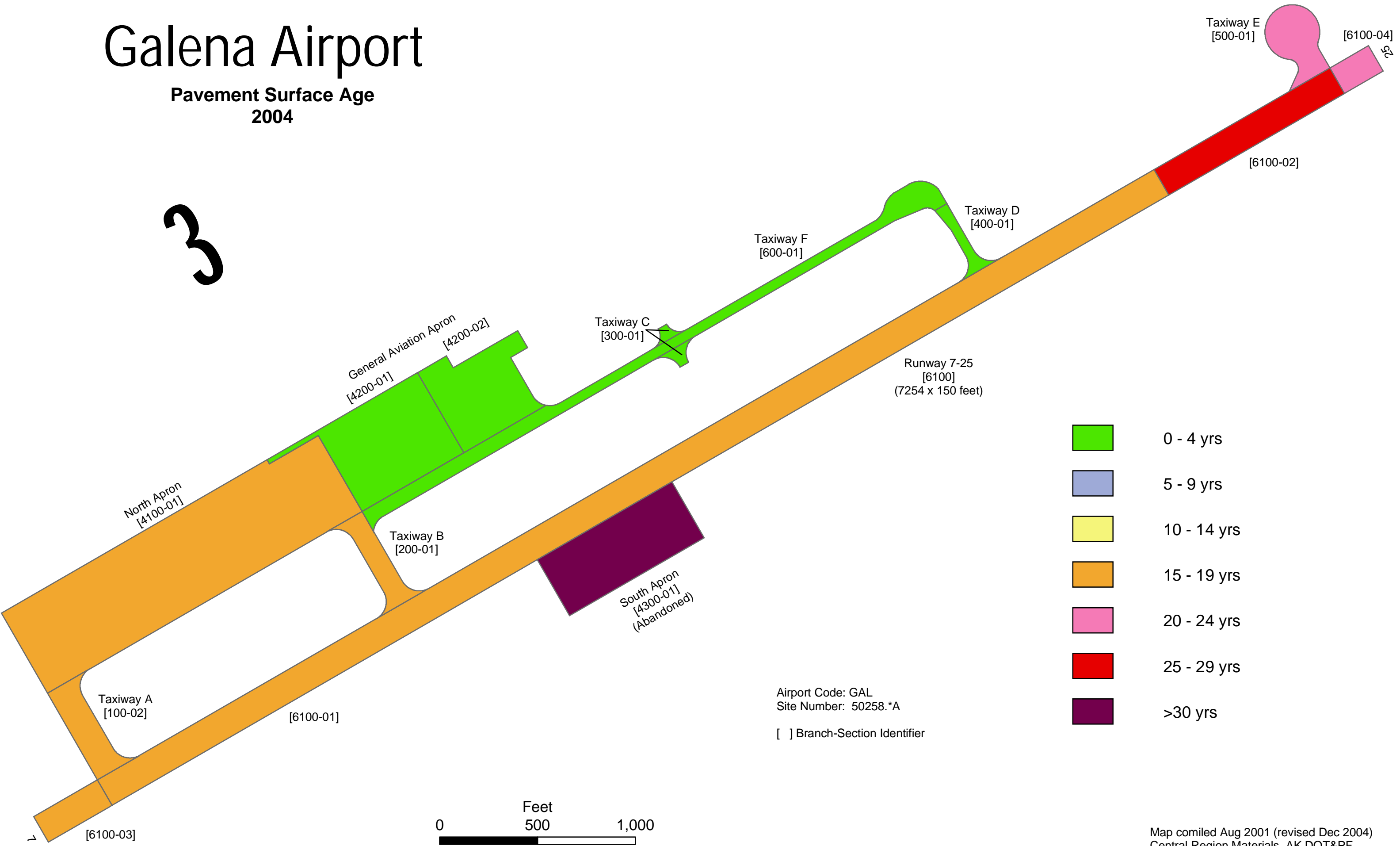




# Galena Airport

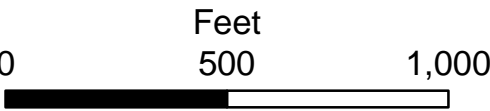
Pavement Surface Age  
2004

3



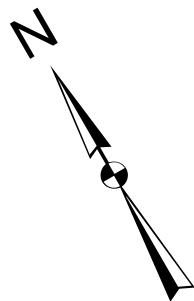
Airport Code: GAL  
Site Number: 50258.\*A

[ ] Branch-Section Identifier



# Galena Airport

Pavement Condition Index (PCI)  
Measured Values for the Year 2001



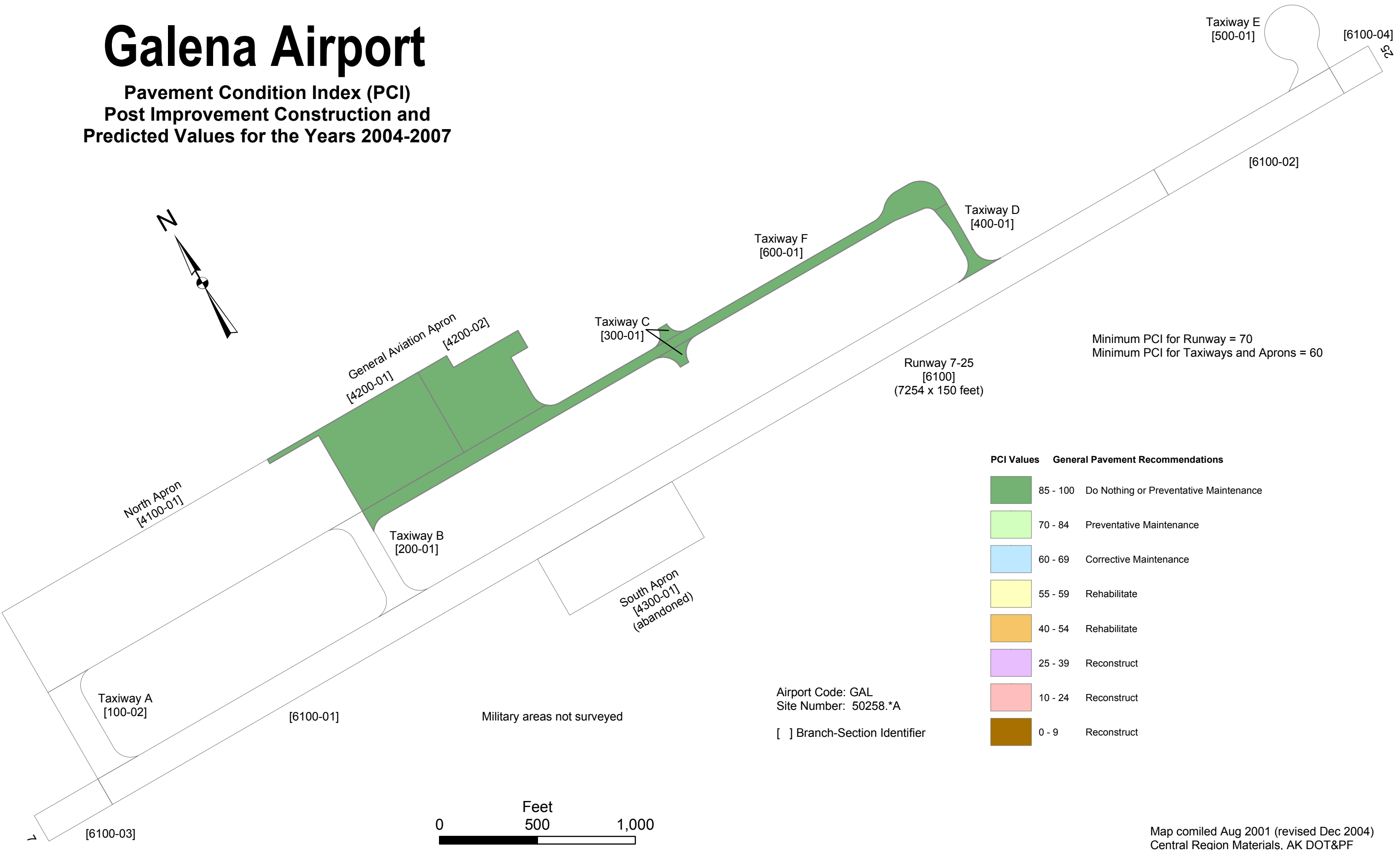
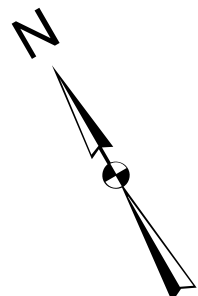
Airport Code: GAL  
Site Number: 50258.\*A  
[ ] Branch-Section Identifier



PCI Values	General Pavement Recommendations	
<div></div>	85 - 100	Do Nothing or Preventative Maintenance
<div></div>	70 - 84	Preventative Maintenance
<div></div>	60 - 69	Corrective Maintenance
<div></div>	55 - 59	Rehabilitate
<div></div>	40 - 54	Rehabilitate
<div></div>	25 - 39	Reconstruct
<div></div>	10 - 24	Reconstruct
<div></div>	0 - 9	Reconstruct

# Galena Airport

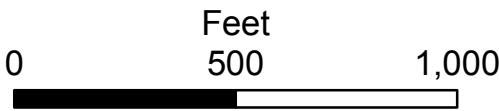
Pavement Condition Index (PCI)  
Post Improvement Construction and  
Predicted Values for the Years 2004-2007



Minimum PCI for Runway = 70  
Minimum PCI for Taxiways and Aprons = 60

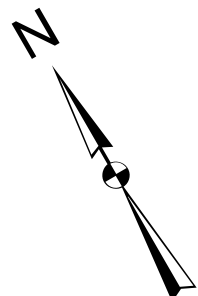
PCI Values		General Pavement Recommendations
<div></div>	85 - 100	Do Nothing or Preventative Maintenance
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<div></div>	40 - 54	Rehabilitate
<div></div>	25 - 39	Reconstruct
<div></div>	10 - 24	Reconstruct
<div></div>	0 - 9	Reconstruct

Airport Code: GAL  
Site Number: 50258.\*A  
[ ] Branch-Section Identifier



# Galena Airport

Pavement Condition Index (PCI)  
Predicted Values for the Year 2008

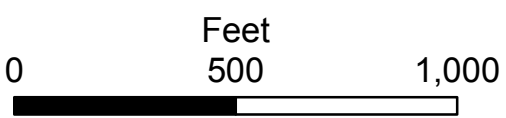


Minimum PCI for Runway = 70  
Minimum PCI for Taxiways and Aprons = 60

Airport Code: GAL  
Site Number: 50258.\*A

[ ] Branch-Section Identifier

PCI Values	General Pavement Recommendations	
85 - 100	Do Nothing or Preventative Maintenance	
70 - 84	Preventative Maintenance	
60 - 69	Corrective Maintenance	
55 - 59	Rehabilitate	
40 - 54	Rehabilitate	
25 - 39	Reconstruct	
10 - 24	Reconstruct	
0 - 9	Reconstruct	



# Galena Airport

Pavement Condition Index (PCI)  
Predicted Values for the Year 2003

3

Airport Code: GAL  
Site Number: 50258.\*A  
[ ] Branch-Section Identifier

Taxiway D  
[400-01]

[6100-E]

Minimum PCI for Runway = 70  
Minimum PCI for Taxiways and Aprons = 60

Runway 7-25  
[6100]

[6100-C]

General Aviation Apron  
[4200-01]

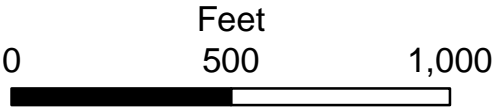
Taxiway B  
[200-01]

South Apron  
[4300-01]  
(Abandoned)

North Apron  
[4100-01]

[6100-W]

Taxiway A  
[100-02]



PCI Values		General Pavement Recommendations
<div></div>	85 - 100	Do Nothing or Preventative Maintenance
<div></div>	70 - 84	Preventative Maintenance
<div></div>	60 - 69	Corrective Maintenance
<div></div>	55 - 59	Rehabilitate
<div></div>	40 - 54	Rehabilitate
<div></div>	25 - 39	Reconstruct
<div></div>	10 - 24	Reconstruct
<div></div>	0 - 9	Reconstruct

# Galena Airport

Pavement Condition Index (PCI)  
Predicted Values for the Year 2004

3

Airport Code: GAL  
Site Number: 50258.\*A  
[ ] Branch-Section Identifier

Taxiway D  
[400-01]

[6100-E]

Minimum PCI for Runway = 70  
Minimum PCI for Taxiways and Aprons = 60

Runway 7-25  
[6100]

[6100-C]

General Aviation Apron  
[4200-01]

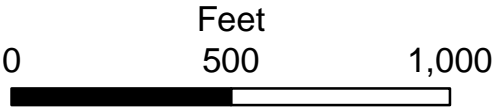
North Apron  
[4100-01]









Taxiway B  
[200-01]

South Apron  
[4300-01]  
(Abandoned)

[6100-W]

Taxiway A  
[100-02]



PCI Values		General Pavement Recommendations
	85 - 100	Do Nothing or Preventative Maintenance
	70 - 84	Preventative Maintenance
	60 - 69	Corrective Maintenance
	55 - 59	Rehabilitate
	40 - 54	Rehabilitate
	25 - 39	Reconstruct
	10 - 24	Reconstruct
	0 - 9	Reconstruct